VIATION JAN. 9, 1950 CORAW-HILL PUBLICATION WEEK



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year Cross-Wind Landing Wheels the first U.S. air. line to adopt this modern landing gear in cooperation with the CAA policy to increase the acceptance rate of airports. With this new

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Aviation Week

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Editorials Aviation Sales & Service

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NEWS SIDELIGHTS

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PLANE

How airport owners help pilots keep casts down







Tits of the Month "Let's est old of rotot expo"."

Pilots now request new Chevron 80/87 Gasoline-enjoy mere newer smoother take-offs



WHO'S WHERE

Changes

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INDUSTRY OBSERVER

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Lockheed's Proposals for Jet Transports

Company has several design studies, but also firm ideas on problems to be licked. Buchard-Lockheel Ascraft City publics of fastions, Lockheel Prop. P. Anime Brokk Problem-Tire fasts Tale more other West Count earn

ARIATION WITE Jones 5, 1950







Jet Transport Specifications

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Congress' Problems in Aviation Fundamental military and civil issues face returning levislators, with budgets, safety and B-36 topping list.

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New Plan for Washington Traffic CAA's plan, which is sissed at adding more restrictions to truffic in the zone, meets strong opposition from AOPA.

By Alexander McSurely

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Representative plots by so keles





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AERONAUTICAL ENGINEERING

Rocket Power—Its Place In Aeronautics

characteristics, design parameters, application details.

By Rubert McLarren

Analysis of this high-thrust medium reveals beneficial PMotor Characteristics. Threat of a

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AIR TRANSPORT

How Is Air Coach Working Out? Capital Airlines wonders, watching couch truffic shown

as other carriers operate on same routes.

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How to Promote the Conter?

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Navy sponsors most powerful propeller-type engine ever cleared for flight!

A new American aircraft engine —the most advanced type in the world — is now revealed by the U.S. Navy, it's the new Allion XT40 br/ba-prop which develops more horsepower per pound of weight, with good feel economy, than any propeller-type engine ever built by any nation. The engine currently is rated at 5500 horsepower.

The new Allison turba-prop will enable any propeller-driven aircraft—for the military services or commercial airlines—to fly foster and carry increased pay laads over longer distances at higher altitudes.

This outstanding performance is accomplished through the engine's high power, small size and light weight. Yet, fuel economy comparable to the best present-day commercial engines is retained.

Horsepower-to-weight ratio, including extension shafting and reduction gear, is double that of our best present-day reciprocating engines—actually more than two horsepower per pound of engine weight.

The new Allison XT40, consisting of two super-powered gas turbines, achieves these important results through high-compression ratio and the flexibility of the twin power plant.

By outperforming reciprocating engines now in use, this new *kurbo*prop engine becomes a highly valuable stoblemate for the turbo-jet engines which power today's very high speed militarry airplanes. Both these turbine-type engines use the same low-grade, readily available fuel; they do not need high-octane aviation gasoline.

The ease and flexibility of installation of this type engine are demonstrated by its first application in the Navy XPSY Convair flying boat. Designers can villize this compact, more powerful engine in all types of aircraft — both military and commercial — to goin improved range and performance.

Once more Allison, a world leader in aircroft engine development and production, has made on outstanding contribution to help keep Americo first in the air.



Compare the small size of this engine, developing 5500 horsepower, with the mon in the photograph above



